$24\ June\ 2005$ from MMS SMART Proposal – p. 37 – per spacecraft numbers/page E-17 of CSR in all modes listed below, IDPU outputs to CIDP at burst rate

Dual Ion Spectrometer (DIS) Survey Modes			
	Slow Survey	Fast Survey	Burst
time/day in mode	14.4 hours (60%)	9.6 hours (40%)	173 seconds (0.2%)
angular resolution	22.5 deg x 11.3 deg	11.3 deg x 11.3 deg	11.3 deg x 11.3 deg
(spacecraft)			
active heads	1	4	4
total angular pixels	256	512	512
post-polar angle	128	256	256
collapse pixels			
energies	32	32	32
total transmitted	4,096	8,192	8,192
elements			
cadence (s)	64.0	4.0	0.250
sampling period (s)	64.0	0.250	0.250
word length (bits)	8	8	4 (see note below)
data rate to s/c if	8 bits/elem*4,096	8 bits/elem*8,192	8 bits/elem*8,192
uncompressed	elem/64s =	elem/4.0s =	elem/0.250s =
	0.512 kbits/s	16.4 kbits/s	262 kbits/s
telemetry allocation	0.128 kbits/s	4.10 kbits/s	100 kbits/s
compression factor	4.0	4.0	2.6

Stepping Behavior

-The desired approach to scanning will be to hold fixed the look direction and then cycle through energy steps providing a crude spatial but complete energy distribution every 60 milliseconds.